

Comparisons of Job Characteristics

Focus Occupation: [Locomotive Firers \(53-4012\)](#)

Associated Occupation: [Locomotive Engineers \(53-4011\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Locomotive Firers (53-4012)

Associated Occupation: Locomotive Engineers (53-4011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Transportation	4.6	13.9	12.9	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	8.7	11.8	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Locomotive Firers (53-4012)

Associated Occupation: Locomotive Engineers (53-4011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	13.6	12.0	<	A higher skill level may be required
Operation Monitoring	6.6	13.3	12.7	0	Current skill level may be sufficient
Quality Control Analysis	5.9	8.3	7.7	0	Current skill level may be sufficient
Troubleshooting	4.5	7.1	7.9	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Locomotive Firers (53-4012)

Associated Occupation: Locomotive Engineers (53-4011)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Far Vision	7.8	14.7	13.8	0	Current ability level may be sufficient
Control Precision	6.6	14.4	11.8	<	Some improvement in abilities may be required
Reaction Time	4.8	14.4	13.0	<	Some improvement in abilities may be required
Response Orientation	4.0	13.6	11.4	<	Some improvement in abilities may be required
Selective Attention	8.7	13.0	12.2	0	Current ability level may be sufficient
Auditory Attention	5.9	12.6	9.3	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	12.5	10.5	<	Some improvement in abilities may be required
Rate Control	3.8	11.5	10.1	<	Some improvement in abilities may be required
Peripheral Vision	2.2	7.4	6.4	<	Some improvement in abilities may be required
Night Vision	2.1	6.2	6.4	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 100

Focus Occupation: Locomotive Firers (53-4012)

Associated Occupation: Locomotive Engineers (53-4011)

Work Activities	Exclusivity of Activity
Examine vehicle to detect malfunctions, damage, or maintenance needed	75
Inspect railroad equipment	89
Monitor railroad vehicle or equipment operation	89
Monitor variables affecting route activities	89
Observe track to detect obstructions	99
Operate locomotives, dinkey engines, or other rail vehicles	92
Perform safety inspections in transportation setting	62
Transport passengers or cargo	64
Understand railroad signals	89
Understand technical operating, service or repair manuals	6
Use two-way radio or mobile phone	42

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Locomotive Firers (53-4012) Associated Occupation: Locomotive Engineers (53-4011)
--

Tools and Technologies	Exclusivity
-------------------------------	--------------------

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.